

## ABSTRACT OF THE DISCLOSURE

The present invention extends to methods, systems, and computer program product for waking a link layer based on data included in a network packet. A sending computer system and a receiving computer system are connected to a common network, such as, for example, an IEEE 1394 network. A physical layer at the receiving computer system receives a network packet from the sending computer system. The physical layer parses a plurality of bytes of packet data contained in the received network packet. The receiving computer system compares at least a portion of the packet data to rule data in a physical layer rule register. Based on the results of the comparison, it is determined if the physical layer is to assert a link on signal that, when received at a corresponding link layer, wakes the corresponding link layer.

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